

PATENT ABSTRACTS OF JAPAN

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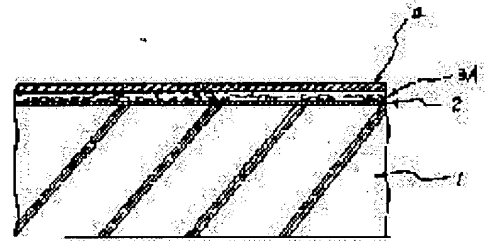
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(54) DECORATION METHOD OF KILN WALLBOARD MEMBER

(57)Abstract:

PURPOSE: To make it possible to form a uniform paint film even if a pearl pigment having a high specific gravity is used and to make it possible to provide design efficiency of the surface thereof.

CONSTITUTION: A base coat surface 2 is formed on the surface of a kiln board member 1 such as a fiber-reinforced cement board or a gypsum board by means of thermosetting paint, and a transfer film having an ink layer 3A containing pearl pigment formed by coating natural mica with oxidation titanium is pressed on the base coat surface 2 to transfer the ink layer 3A. After that, a clear coating 4 is applied on the ink layer 3A.



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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Industrial Application] This invention relates to amelioration of the makeup approach of the ceramic industry system wall board material which has pearl gloss in detail about the makeup approach of ceramic industry system wall board material.

[0002]

[Description of the Prior Art] Conventionally, ceramic industry system plates, such as a fiber reinforcement cement plate or plaster board, are used very widely as a building board. By the way, painting various colors to serve also as waterproof grant on a front face, since a front face is lacking in design nature at the achromatic color of a black ash color - white as this seed ceramic industry system plate remains as it is, and ornamenting is performed. In order to gi design nature further to these besides the single paint by the glossy coating as these makeup approach, various approaches, such as a circular and a makeup means to mix a resin bead etc. in a coating further and to give surface variability, are taken in a coating in the shape of a spatter on these painted surfaces.

[0003] However, when it was about [2-3m] point-blank range, these patterns etc. were observed, but the makeup sid by the approach for giving variability to a front face had the problem from which it stops almost understanding and t case of single paint and the appearance of a change are almost lost, when separating and seeing. Since such a problem is solved, it is possible to prepare the surface makeup layer which contained the pearl pigment from which surface design nature changes with the include angles to see by interference of light.

[0004]

[Description of the Prior Art] By the way, although it is necessary to use the thing which comes to carry out the coat the natural mica with titanium oxide as a pearl pigment suitable for surface makeup of the ceramic industry system w board material exposed to severe conditions, such as direct sunlight and storm sewage It carrying out homogeneity distribution into a coating with 3-4, since specific gravity is large and the particle size of a pigment also has it, and painting these by uniform thickness compared with a solvent, had the problem which becomes very difficult. [as lar as 3-150mmicro]

[0005]

[Problem(s) to be Solved by the Invention] Even if this invention uses a pearl pigment with large specific gravity in view of the above-mentioned trouble, it can form a uniform paint film and is made for the purpose of acquiring the makeup approach of the ceramic industry system wall board material which can moreover give surface design nature

[0006]

[Means for Solving the Problem] Namely, the makeup approach of the ceramic industry system wall board material t invention A substrate painted surface (2) is formed in ceramic industry system plate (1) front faces, such as a fiber reinforcement cement plate or plaster board, in thermosetting coatings. Subsequently, carry out the pressure welding the imprint film (3) which has an ink layer (3A) containing the pearl pigment which comes to carry out the coat of th natural mica with titanium oxide on said substrate painted surface (2), and an ink layer (3A) imprint is carried out [aforementioned]. It is characterized by performing clear paint (4) on this ink layer (3A) after an appropriate time.

[0007]

[Function] In performing makeup which has surface pearl gloss, in this invention, a substrate painted surface is first formed in a ceramic industry system wall board material front face in the coatings which consist of thermosetting res This is for improving adhesion of the ink layer by which a laminating is carried out on it. And after forming this substrate painted surface, the pressure welding of the imprint film which has an ink layer containing the pearl pigme which comes to carry out the coat of the natural mica with titanium oxide is carried out, and the makeup layer which has pearl gloss on a front face not with a paint means but with an imprint means is prepared. Therefore, in the paint film formation in the case of being based on a spray, a paint roll, etc., the makeup layer of the uniform thickness whi carried out homogeneity distribution which is not obtained is obtained by the tube end. And the clear paint of the fro

face is carried out, and weatherability is further given to the last.

[0008]

[Example] Next, the example of this invention is explained. The important section expanded sectional view of the ceramic industry system wall board material which obtained drawing 1 by the approach of this invention, and drawin 2 are the important section expanded sectional views of an imprint film.

[0009] The example front face prepared the gray fiber reinforcement cement plate (1), applied the thermosetting resin which becomes the front face from acrylic urethane, and formed the substrate painted surface (2) of uniform thickness. Next, as shown in drawing 2, the imprint film (3) which has the ink layer (3A) which made the front face of an exfoliation film (3B) distribute the pearl pigment which carries out the coat of the natural mica to acrylic resin, vinyl chloride resin, or vinyl acetate resin with titanium oxide, and becomes it was prepared, and in contact with said substrate painted surface (2), the sticking-by-pressure imprint of the ink layer (3A) of this imprint film (3) was carried out with a roll. In addition, (3C) shows among drawing the stratum disjunctum prepared in the exfoliation film (3B) front face. Then, the exfoliation film (3B) was removed and clear paint (4) was performed for the ink layer (3A) top.

[0010] The same substrate painted surface as an example was formed in the same ceramic industry system wall board material (1) front face as example of comparison 1 example, and it sprayed in the clear coatings which, subsequently this front face, added the pearl pigment which comes to carry out the coat of the natural mica with titanium oxide.

However, the injection nozzle of a spray was got blocked at an early stage, and was not able to carry out uniform painting continuously.

It replaced with the spray painting of the example 1 of example of comparison 2 comparison, and roll coating performed surface coating.

[0011] Although the thing of the surface makeup which has pearl gloss with the uniform thing of an example was obtained when the front face of the ceramic industry system wall board material obtained by the example and the examples 1 and 2 of a comparison was observed. Forming the paint film itself of the thing of the example 1 of a comparison was hardly completed, and once, although the thing of the example 2 of a comparison was made, the unevenness of a pearl pigment was seen and, as for surface makeup, it was not able to obtain the thing of a uniform distributed condition at all.

[0012]

[Effect of the Invention] As explained above, in spite of using a pearl pigment with large specific gravity according to the approach of this invention, it becomes possible to give easily surface makeup made into the distributed condition a pearl pigment uniform on a ceramic industry system wall board material front face.

[Translation done.]